

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number  
**WO 2005/076999 A3**

(51) International Patent Classification:

**C07H 21/02** (2006.01) **C12P 19/34** (2006.01)  
**C07H 21/04** (2006.01) **A01N 43/04** (2006.01)  
**C12Q 1/68** (2006.01)

(21) International Application Number:

PCT/US2005/003858

(22) International Filing Date: 7 February 2005 (07.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/541,776 5 February 2004 (05.02.2004) US

(71) Applicant (for all designated States except US): **INTRADIGM CORPORATION** [US/US]; Suite K, 12115 Parklawn Drive, Rockville, MD 20852 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LI, Bao-Jian** [CN/US]; c/o Intradigm Corporation, 12115 Parklawn Drive, Suite K, Rockville, MD 20852 (US). **LU, Patrick, Y.** [US/US]; 17093 Briardale Road, Rockville, MD 20855 (US). **WOODLE, Martin, C.** [US/US]; 8205 Beech Tree Road, Bethesda, MD 20817 (US). **XIE, Frank, Y.** [CN/US]; 13921 Rockingham Road, Germantown, MD 20874 (US).

(74) Agents: **BOOTH, Paul, M.** et al.; Heller Ehrman LLP, 1717 Rhode Island Avenue, N.W., Washington, DC 20036-3001 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

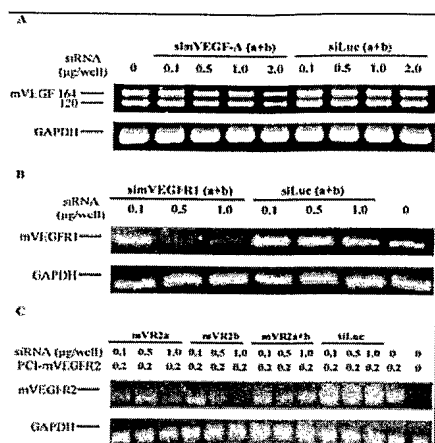
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

6 July 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND COMPOSITIONS FOR COMBINATION RNAI THERAPEUTICS



(57) Abstract: Compositions and methods containing mixtures of siRNA molecules that target genes associated with disease are provided. The mixtures of siRNA molecules provide greater efficacy in reducing expression of disease-associated genes than individual siRNA molecules.